

$$\left. \begin{aligned} S &= \alpha + \beta \rightarrow \beta = \frac{1}{\mu} \alpha \rightarrow \mu \alpha = \frac{a}{\mu} \Rightarrow a = \mu^2 \alpha \\ P &= \alpha \beta \rightarrow \beta = \frac{1}{\mu} \alpha \rightarrow \frac{1}{\mu} \alpha^2 = \frac{c}{\mu} \Rightarrow \alpha^2 = \frac{c}{\mu} \Rightarrow \alpha = \pm \sqrt{\frac{c}{\mu}} \end{aligned} \right\} a = \pm 1$$

$$5. \frac{1}{\sqrt{a}} + \frac{1}{\sqrt{b}} = \frac{\sqrt{a} + \sqrt{b}}{\sqrt{ab}} = \frac{\sqrt{(\sqrt{a} + \sqrt{b})^2}}{\sqrt{ab}} = \frac{\sqrt{a+b+2\sqrt{ab}}}{\sqrt{ab}} = \sqrt{\frac{a+b+2\sqrt{ab}}{ab}} = \sqrt{\frac{5+2\sqrt{6}}{6}}$$

$$\sqrt{\frac{\frac{m+18}{r_4} + \frac{r}{r_4}}{\frac{1}{r_4}}} = \sqrt{m+19} = 2 \Rightarrow \left. \begin{array}{l} m=9 \\ mx^r + r^3x + r = 0 \end{array} \right\} \begin{array}{l} 9x^r + r^3x + r = 0 \\ \frac{r}{9} = \frac{c}{a} = \text{ضرب} \\ \text{بالمقام} \end{array}$$

10. if $\alpha \in \beta \rightarrow (\alpha + \beta)^r = (\alpha - \beta)^r = r\alpha\beta \rightarrow 1 - (\alpha - \beta)^r = -1 \Rightarrow (\alpha - \beta)^r = 1$

if $\alpha + \beta = 1$ } $\alpha = 1$ $\alpha - \beta = 1$
 $\alpha - \beta = 1$ } $\alpha = 1 \Rightarrow \beta = -1 \rightarrow \alpha = \beta = -1 \rightarrow -x + k + y = 0 \rightarrow k + y = 0, k = -y$

$$r\alpha^r + r\beta^r = (r/10\alpha^r + r/10\beta^r) + (10\alpha^r - 10\beta^r) = r/10(\alpha^r + \beta^r) + 10(\alpha^r - \beta^r) \quad - \text{E}$$

$$15 = r/0 (S^r - r p) + \cdot 0 (\alpha - \beta)(S) = r/0 (r^u - r a) + \cdot 0 (-\sqrt{r^u - a})(-4)$$

$$9 - 2a + 4\sqrt{9-a} = 12 + 15\sqrt{2} \rightarrow \begin{matrix} 2a = 0 \\ a = 1 \end{matrix} \Rightarrow a = 1$$

$$\swarrow 4\sqrt{9-a} = 4\sqrt{8} \rightarrow a = 1$$

$$\alpha + \beta = 0, \alpha = -\beta \rightarrow r p^T \cancel{r} p + \cancel{r} p^T = r p^T \underbrace{\quad}_w$$

$$20 \quad x^T - vx^T - \omega = 0 \Rightarrow x^T = \frac{v \pm \sqrt{v^2 - \omega}}{1} \Rightarrow x^T \gg 0, x^T = \frac{v + \sqrt{v^2 - \omega}}{1} \rightarrow \alpha = \omega$$

$$r p^T = \frac{v^2 + \omega + 1 \pm \sqrt{v^2 - \omega}}{1} \times x^T = \omega + v \pm \sqrt{v^2 - \omega}$$

$$\text{max}_r, ax - q = 0 \rightarrow rx - ax - b = 0 \quad \begin{matrix} \rightarrow S = \frac{q}{r} \\ \rightarrow P = \frac{-b}{r} \end{matrix}$$

$$25 \quad -r = \frac{r}{a} = p \quad S' = \alpha + 10 + 10 + \beta = 5 + 1 = \frac{-1}{r} + 1 \Rightarrow \frac{1}{r} = \frac{a}{r} \Rightarrow a = 1$$

$$p' = (\alpha + i0)(\beta + i0) = \alpha\beta + i0(\alpha + \beta) + i^2 0 = -r + \frac{1}{\cancel{e}} - \frac{1}{\cancel{e}} = -r \cdot \frac{b}{r}$$

$$[ab] = [y] = 1 \quad b=y$$

$$\left[\frac{ab}{c} \right] = \left[\frac{4}{2} \right] = 1 \quad b=4$$

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$$ax^r - ax - b = 0 \xrightarrow{a=r} r \cdot x^r - r \cdot x - b = 0 \rightarrow r \cdot x^r - r \cdot x - b = 0 \Rightarrow r \cdot x^r = r \cdot x + b \quad \checkmark$$

$$r \cdot \beta^r - r \cdot \beta - b = 0 \Rightarrow r \cdot \beta^r = r \cdot \beta + b$$

$$r \cdot \beta^r + r \cdot \alpha^r - r \cdot \beta \rightarrow r \cdot \beta + r \cdot b + r \cdot \alpha + b - r \cdot \beta = 14 \Rightarrow r(\alpha + \beta) + r \cdot b = 14$$

$$b = -1$$

$$|\alpha - \beta| = \frac{\sqrt{r^2 - 14}}{r} = \frac{\sqrt{r^2}}{r} = \frac{r\sqrt{0}}{r}$$

$$x^r - (a+1)x + a = 0 \rightarrow x_1 = 1 \rightarrow a = r \rightarrow P_r = r \quad \Delta$$

$$x^r - (ra+1)x + b = 0 \rightarrow x^r - 1 \cdot x + b = 0 \rightarrow (x-\alpha)(x-\beta) = 0 \rightarrow x^r - (\alpha+\beta)x + \alpha\beta = 0$$

$$\alpha + \beta = 1$$

$$\alpha\beta = b \rightarrow r\alpha + r = \alpha, \alpha + r \Rightarrow \alpha = r \left. \begin{array}{l} b = r^2 \\ P_r = b = r^2 \end{array} \right\}$$

$$\Delta \geq 0 \rightarrow b^r - r^2ac \geq 0 \Rightarrow 1 + r + m^r \geq 0 \Rightarrow m^r + \Delta \geq 0 \quad \checkmark$$

$$\alpha^r + \beta^r = 5^r - rP = 1 + rm^r + r = rm^r + r \rightarrow m^r \geq 0 \quad \min \Rightarrow m^r = 0$$

$$\alpha^r + \beta^r = 0 + r^r = r^r$$

$$\begin{array}{l} (r, y) \\ (-a, y) \end{array} \rightarrow \frac{r-a}{r} = -1 \quad y_5 = +1 \quad \left. \begin{array}{l} \\ \end{array} \right\} (-1, 1) \quad -1$$

$$y = a(x+1)^r + 1 \Rightarrow y = ax^r + rax + a + 1$$

$$\alpha^r + \beta^r = 5^r - rP = r - r \left(\frac{a+1}{a} \right) = a \Rightarrow r \left(\frac{a+1}{a} \right) = -1 \Rightarrow a = -\frac{r}{r}$$

$$y = -\frac{r}{r}x^r - \frac{r}{r}x + \frac{1}{r} \rightarrow y = \frac{1}{r}$$

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